## In the Claims

1. (Currently Amended) A transmitting apparatus for transmitting a content <u>program</u>, comprising:

a record medium on which at least one content <u>program</u> has been written is stored; section generating means for generating a section generator that divides the content program into sections, section 1 to section n (where n is an integer) in such a manner that when the content <u>program</u> is divided into the section 1 to the section n in a predetermined ratio, the length of a section on the beginning side is smaller than the length of a section on the end side section n is longer than the length of section 1;

signal formatting means for formatting a signal formatter that formats a signal in such a manner that the length of data of each of the section 1 to the section n in the content program is the same in each of channel 1 to channel n;

multiplexing means for multiplexing a multiplexer to multiplex the signal formatted by the signal formatter; and

transmitting means for transmitting a transmitter to transmit the multiplexed signal.

- 2. (Original) The transmitting apparatus as set forth in claim 1, wherein the data of each of the section 1 to the section n has been written to said record medium corresponding to pre-designated addresses.
- 3. (Currently Amended) The transmitting apparatus as set forth in claim 1, wherein said section generating means generator divides the content program by n so that a ratio of the lengths of the section 1 to the section n become is 1, 2, 4, ..., 2<sup>(n-1)</sup>, respectively.
- 4. (Currently Amended) The transmitting apparatus as set forth in claim 1, wherein said section generating means generator divides the content program so that a ratio of the lengths of the section 1 to the section m (where 1 < m < n; m is an integer) become is 1, 2, 4, ...,  $2^{(m-1)}$ , respectively, and that wherein the length of each of the section m to the section n is the same as the length of the section m.

- 5. (Currently Amended) The transmitting apparatus as set forth in claim 1, wherein said signal formatting means formatter repeats data of the section 1 to the section n-1 so that the length of each of signals of the channel 1 to the channel n-1 is the same as the length of a signal of the channel n.
- 6. (Currently Amended) The transmitting apparatus as set forth in claim 1, wherein said signal formatting means formatter repeats data of each of the section 1 to the section m-1 so that the length of each of signals of the channel 1 to the channel m-1 (where 1<m<n; m is an integer) is the same as the length of a signal of the channel m and that the length of each of the signals of the channel m to the channel n is the same as the length of the signal of the channel m.
- 7. (Currently Amended) The transmitting apparatus as set forth in claim 1, wherein said multiplexing means multiplexer multiplexes synchronous data, flag data, and the data of the section 1 to the section n, the synchronous data being used to establish a synchronization with a receiver, the flag data representing that beginning data is contained in each of the section 1 to the section n.
- 8. (Original) The transmitting apparatus as set forth in claim 1, wherein the multiplexed signal is modulated.
- 9. (Currently Amended) A transmitting method for transmitting a content program, the method comprising the steps of:

writing at least one content program to a record medium;

generating dividing the content program into sections, section 1 to section n (where n is an integer) in such a manner that when the content <u>program</u> is divided into the section 1 to the section n in a predetermined ratio, the length of a section on the beginning side is smaller than the length of a section on the end side section n is longer than the length of section 1;

formatting a signal in such a manner that the length of data of each of the section 1 to the section n in the content program is the same in each of channel 1 to channel n; multiplexing the formatted signal; and transmitting the multiplexed signal.

- 10. (Original) The transmitting method as set forth in claim 9, wherein the data of each of the section 1 to the section n has been written to the record medium corresponding to pre-designated addresses.
- 11. (Currently Amended) The transmitting method as set forth in claim 9, wherein the content <u>program</u> is divided by n so that <u>a ratio of</u> the lengths of the section 1 to the section n become is  $1, 2, 4, \ldots, 2^{(n-1)}$ , respectively.
- 12. (Currently Amended) The transmitting method as set forth in claim 9, wherein the content <u>program</u> is divided so that <u>a ratio of</u> the lengths of the section 1 to the section m (where 1 < m < n; m is an integer) become is  $1, 2, 4, \ldots, 2^{(m-1)}$ , respectively, and that <u>wherein</u> the length of each of the section m to the section n is the same as the length of the section m.
- 13. (Original) The transmitting method as set forth in claim 9, wherein data of the section 1 to the section n-1 is repeated so that the length of each of signals of the channel 1 to the channel n-1 is the same as the length of a signal of the channel n.
- 14. (Original) The transmitting method as set forth in claim 9, wherein data of each of the section 1 to the section m-1 is repeated so that the length of each of signals of the channel 1 to the channel m-1 (where 1<m<n; m is an integer) is the same as the length of a signal of the channel m and that the length of each of the signals of the channel m to the channel n is the same as the length of the signal of the channel m.
- 15. (Original) The transmitting method as set forth in claim 9, wherein synchronous data, flag data, and the data of the section 1 to the section n are multiplexed,

the synchronous data being used to establish a synchronization, the flag data representing that beginning data is contained in each of the section 1 to the section n.

- 16. (Original) The transmitting method as set forth in claim 9, wherein the multiplexed signal is modulated.
- 17. (Currently Amended) A receiving apparatus for receiving a signal from a transmitting apparatus and reproducing the received signal, the transmitting apparatus having a first record medium on which at least one content <u>program</u> has been written, a section generating means for generating generator that divides the content <u>program into sections</u>, section 1 to section n (where n is an integer) in such a manner that when the content <u>program</u> is divided into the section 1 to the section n in a predetermined ratio, the length of a section on the beginning side is smaller than the length of a section on the end side section n is longer than the length of section 1, a signal formatting means for formatting formatter that formats a signal in such a manner that the length of data of each of the section 1 to the section n is the same in each of channel 1 to channel n, multiplexing means for multiplexing a multiplexer that multiplexes the formatted signal, and transmitting means for transmitting a transmitter that transmits the multiplexed signal, the receiving apparatus comprising:

separating means for separating a separator to separate the received signal;

detecting means for detecting a detector to detect a beginning data of each of the section 1 to the section n from the separated signals;

a second record medium on which the beginning data of each of the section 1 to the section n is written to channel 1 to channel n, respectively;

reading means for a reader to successively reading read data of the section 2 to the section n from said second record medium after the beginning data of the section 1 is detected, the data of the section 1 is written to said second record medium starting from the beginning data of the section 1, the data of the section 1 is read from said second record medium, and the data of the section  $\frac{1}{2}$  is read from said second record medium; and

reproducing means for reproducing a content program reproduction apparatus to reproduce the data of the section 1 to the section n that has been read from said second record medium.

- 18. (Currently Amended) The receiving apparatus as set forth in claim 17, wherein said detecting means detector detects bit 1 to bit n corresponding to the section 1 to the section n of flag data contained in the signal so as to detect whether or not beginning data of the section 1 to the section n are present.
- 19. (Currently Amended) The receiving apparatus as set forth in claim 17, wherein when the content program is divided so that a ratio of the lengths of the section 1 to the section m (where 1 < m < n; m is an integer) become is  $1, 2, 4, \ldots, 2^{(m-1)}$ , respectively, and that the length of each of the section m to the section n is the same as the length of the section m, said second record medium has a capacity for which the total of the lengths of the section 1 to the section m and the length of the section 1 can be written.
- 20. (Currently Amended) A receiving method for receiving a signal from a transmitting apparatus and reproducing the received signal, the transmitting apparatus having a first record medium on which at least one content <u>program</u> has been written, <u>a</u> section generating means for generating generator that divides the content <u>program into</u> sections, section 1 to section n (where n is an integer) in such a manner that when the content <u>program</u> is divided into the section 1 to the section n in a predetermined ratio, the length of a section on the beginning side is smaller than the length of a section on the end side section n is longer than the length of section 1, a signal formatting means for formatting formatter that formats a signal in such a manner that the length of data of each of the section 1 to the section n is the same in each of channel 1 to channel n, multiplexing means for multiplexing a multiplexer to multiplex the formatted signal, and transmitting means for transmitting a transmitter to transmit the multiplexed signal, the receiving method comprising the steps of:

separating the received signal;

detecting beginning data of each of the section 1 to the section n from the separated signals;

writing the beginning data of each of the section 1 to the section n to channel 1 to channel n, respectively, to a second record medium;

successively reading data of the section 2 to the section n from the second record medium after the beginning data of the section 1 is detected, the data of the section 1 is written to the second record medium starting from the beginning data of the section 1, the data of the section 1 is read from the second record medium, and the data of the section 1 n is read from the second record medium; and

reproducing the data of the section 1 to the section n that has been read from the second record medium.

- 21. (Original) The receiving method as set forth in claim 20, wherein bit 1 to bit n corresponding to the section 1 to the section n of flag data contained in the signal are detected so as to detect whether or not beginning data of the section 1 to the section n are present.
- 22. (Currently Amended) The receiving method as set forth in claim 20, wherein when the content <u>program</u> is divided so that <u>a ratio of</u> the lengths of the section 1 to the section m (where 1 < m < n; m is an integer) become is  $1, 2, 4, \ldots, 2^{(m-1)}$ , respectively, and that the length of each of the section m to the section n is the same as the length of the section m, the second record medium has a capacity for which the total of the lengths of the section 1 to the section m and the length of the section 1 can be written.
- 23. (Currently Amended) A transmitting and receiving system having a transmitting apparatus for transmitting a content <u>program</u> and at least one receiving apparatus for receiving the transmitted content and reproducing the received content <u>program</u>, wherein the transmitting apparatus comprises:
- a first record medium on which at least one content <u>program</u> has been written is stored;

generating means for generating a section generator that divides the content program into sections, section 1 to section n (where n is an integer) in such a manner that when the content program is divided into the section 1 to the section n in a predetermined ratio, the length of a section on the beginning side is smaller than the length of a section on the end side section n is longer than the length of section 1;

signal formatting means for formatting a signal formatter that formats a signal in such a manner that the length of data of each of the section 1 to the section n is the same in each of channel 1 to channel n;

multiplexing means for multiplexing a multiplexer to multiplex the signal formatted by the signal formatter; and

transmitting means for transmitting a transmitter to transmit the multiplexed signal,

wherein the receiving apparatus comprises:

separating means for separating a separator to separate the received signal;

detecting means for detecting a detector to detect a beginning data of each of the section 1 to the section n from the separated signals;

a second record medium on which the beginning data of each of the section 1 to the section n is written to channel 1 to channel n, respectively;

reading means for a reader to successively reading read data of the section 2 to the section n from said second record medium after the beginning data of the section 1 is detected, the data of the section 1 is written to said second record medium starting from the beginning data of the section 1, the data of the section 1 is read from said second record medium, and the data of the section  $\frac{1}{2}$  is read from said second record medium; and

reproducing means for reproducing a content program reproduction apparatus to reproduce the data of the section 1 to the section n that has been read from said second record medium,

wherein the transmitting apparatus transmits the content <u>program</u> that has been divided by n to the receiving apparatus through a transmission line, and wherein when the receiving apparatus detects beginning data of the received content <u>program</u>, the receiving apparatus reproduces the content <u>program</u>.

- 24. (Original) The transmitting and receiving system as set forth in claim 23, wherein the data of each of the section 1 to the section n has been written to said first record medium corresponding to pre-designated addresses.
- 25. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said section generating means generator divides the content program by n so that a ratio of the lengths of the section 1 to the section n become is 1, 2, 4, ...,  $2^{(n-1)}$ , respectively.
- 26. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said section generating means generator divides the content program so that a ratio of the lengths of the section 1 to the section m (where 1 < m < n; m is an integer) become is 1, 2, 4, ...,  $2^{(m-1)}$ , respectively, and that the length of each of the section m to the section n is the same as the length of the section m.
- 27. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said signal-formatting means formatter repeats data of the section 1 to the section n-1 so that the length of each of signals of the channel 1 to the channel n-1 is the same as the length of a signal of the channel n.
- 28. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said signal formatting means formatter repeats data of each of the section 1 to the section m-1 so that the length of each of signals of the channel 1 to the channel m-1 (where 1<m<n; m is an integer) is the same as the length of a signal of the channel m and that the length of each of the signals of the channel m to the channel n is the same as the length of the signal of the channel m.
- 29. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said multiplexing means multiplexer multiplexes synchronous data, flag data, and the data of the section 1 to the section n, the synchronous data being used

to establish a synchronization, the flag data representing that beginning data is contained in each of the section 1 to the section n.

- 30. (Original) The transmitting and receiving system as set forth in claim 23, wherein the multiplexed signal is modulated.
- 31. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein said detecting means detector detects bit 1 to bit n corresponding to the section 1 to the section n of flag data contained in the signal so as to detect whether or not beginning data of the section 1 to the section n are present.
- 32. (Currently Amended) The transmitting and receiving system as set forth in claim 23, wherein when the content <u>program</u> is divided so that <u>a ratio of</u> the lengths of the section 1 to the section m (where 1<m<n; m is an integer) become 1, 2, 4, ..., 2<sup>(m-1)</sup>, respectively, and that the length of each of the section m to the section n is the same as the length of the section m, said second record medium has a capacity for which the total of the lengths of the section 1 to the section m and the length of the section 1 can be written.